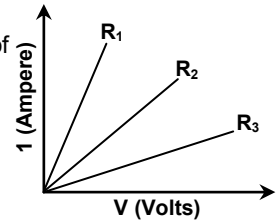
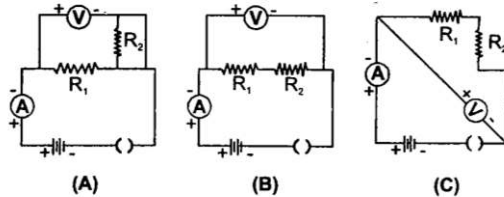


PHYSICS

1. A student carries out an experiment and plots the V-I graph of three samples of Nicrome wire with resistance R_1 , R_2 and R_3 respectively. Which of the following is true?
- (A) $R_1 = R_2 = R_3$
 (B) $R_1 > R_2 > R_3$
 (C) $R_3 > R_2 > R_1$
 (D) $R_2 > R_3 > R_1$



2. While doing their experiment on finding the equivalent resistance of two resistors connected in series, the students A, B and C set up their circuits as shown. The correct set up is that of:



- (A) Students A and B
 (B) Students B and C
 (C) Students C and A
 (D) All the three students
3. Commercial electric motors do not use:
 (A) An electromagnet to rotate the armature
 (B) Effectively large no. of turns of conducting wire in the current carrying coil
 (C) A permanent magnet to create the armature
 (D) A soft iron core on which the coil is wound
4. What is the angle of incidence when the incident ray is normal to the interface or boundary separating two media?
 (A) 0°
 (B) 90°
 (C) 180°
 (D) 45°
5. In an experiment with a rectangular glass slab, for an angle of incidence of 60° in air, angle of refraction is measured to be r_1 . When the glass slab is replaced by a hollow slab filled with water, angle of refraction is measured to be r_2 . Then:
 (A) $r_2 = r_1$
 (B) $r_2 > r_1$
 (C) $r_2 < r_1$
 (D) Cannot say
6. If angle of minimum deviation through an equilateral prism is 40° , angle of incidence (being equal to angle of emergence) would be:
 (A) 50°
 (B) 60°
 (C) 40°
 (D) None of these
7. A convex lens of focal length f_1 is held in contact with a concave lens of focal length f_2 . We can find rough focal length of the combination only when:
 (A) $f_1 = f_2$
 (B) $f_1 < f_2$
 (C) $f_1 > f_2$
 (D) None of these
8. An apple falls from a tree because of gravitation between the earth and apple. If F_1 is the magnitude of force exerted by the earth on the apple and F_2 is the magnitude of force exerted by apple on earth, then:
 (A) F_1 is very much greater than F_2
 (B) F_2 is very much greater than F_1
 (C) F_1 is only a little greater than F_2
 (D) F_1 and F_2 are equal
9. A body floats with $\frac{1}{3}$ of its volume outside water and $\frac{3}{4}$ of its volume outside another liquid. The density of the other liquid is:
 (A) $\frac{9}{4} \times 10^3 \text{ kg/m}^3$
 (B) $\frac{4}{9} \times 10^3 \text{ kg/m}^3$
 (C) $\frac{8}{3} \times 10^3 \text{ kg/m}^3$
 (D) $\frac{3}{4} \times 10^3 \text{ kg/m}^3$

10. A hydrometer floats with half of its stem outside water surface. It is now placed in alcohol (R.D = 0.8). The hydrometer floats:
- (A) with stem at the same position (B) with more stem inside the alcohol
(C) with more stem outside alcohol (D) in tilted position
11. A key of a mechanical piano is struck gently and then struck again but much harder this time. In the second case:
- (A) Sound will be louder but pitch will not be different
(B) Sound will be louder and pitch will also be higher
(C) Sound will be louder but pitch will be lower
(D) Both loudness and pitch will remain unaffected
12. The intensity of sound wave gets reduced by 20% on passing through a slab. The reduction in intensity on passing through two consecutive slabs is:
- (A) 40% (B) 36%
(C) 30% (D) 50%

CHEMISTRY

13. A dilute Ferrous sulphate solution was gradually added to the beaker containing acidified Permanganate solution. The light purple colour of the solution fades and finally disappears. Which of the following is the correct explanation for the observation?
- (A) KMnO_4 is an oxidizing agent, it oxidizes FeSO_4
(B) FeSO_4 acts as an oxidizing agent and oxidizes KMnO_4
(C) The colour disappears due to dilution: no reaction is involved
(D) KMnO_4 is an unstable compound and decomposes in presence of FeSO_4 to a colourless compound
14. In the double displacement reaction between aqueous potassium iodide and aqueous lead nitrate, a yellow precipitate of lead iodide is formed. While performing the activity if lead nitrate is not available, which of the following can be used in place of lead nitrate?
- (A) Lead sulphate (insoluble) (B) Lead acetate
(C) Ammonium nitrate (D) Potassium sulphate
15. Which of the following are exothermic processes?
- (A) Reaction of water with quick lime (B) Dilution of an acid
(C) Evaporation of water (D) Sublimation of Camphor (Crystals)
1. (a) and (b)
2. (b) and (c)
3. (a) and (d)
4. (c) and (d)
16. If a few drops of a concentrated acid accidentally spill over the hand of a student, what should be done?
- (A) Wash the hand with saline water
(B) Wash the hand immediately with plenty of water and apply a paste of sodium hydrogen carbonate
(C) After washing with plenty of water apply solution of sodium hydroxide on the hand
(D) Neutralise the acid with a strong alkali
17. Which of the following is acidic in nature?
- (A) Lime juice (B) Human blood
(C) Lime water (D) Antacid
18. Which of the following represent saponification reaction?
- (A) $\text{CH}_3\text{COONa} + \text{NaOH} \xrightarrow{\text{CaO}} + \text{Na}_2\text{CO}_3$
(B) $\text{CH}_3\text{COOH} + \text{C}_2\text{H}_5\text{OH} \xrightarrow{\text{H}_2\text{SO}_4} \text{CH}_3\text{COOC}_2\text{H}_5 + \text{H}_2\text{O}$
(C) $2\text{CH}_3\text{COOH} + 2\text{Na} \rightarrow \text{CH}_3\text{COONa} + \text{H}_2$
(D) $\text{CH}_3\text{COOC}_2\text{H}_5 + \text{NaOH} \rightarrow \text{CH}_3\text{COONa} + \text{C}_2\text{H}_5\text{OH}$
19. Hard water does not easily produce lather with soap because it contains:
- (A) Only Mg^{2+} ions (B) Only Ca^{2+} ions
(C) Both Mg^{2+} and Ca^{2+} ions (D) Both Na^+ and K^+ ions
20. Which of the given element A, B, C, D and E with atomic number 2, 3, 5, 7, 10 and 30 respectively belong to the same period?
- (A) A, B, C (B) B, C, D
(C) A, D, E (D) B, D, E

21. A mixture of sulphur and carbon disulphide is:
(A) Heterogeneous and shows Tyndall effect
(B) Heterogeneous and does not show Tyndall effect
(C) Homogeneous and shows Tyndall effect
(D) Homogeneous and does not show Tyndall effect
22. Which of the following contains maximum number of molecules?
(A) 1 gm of CO₂
(B) 1 gm of N₂
(C) 1 gm of H₂
(D) 1 gm of CH₄
23. Which of the following correctly represent 360 gms of water?
(i) 2 moles of H₂O
(ii) 20 moles of water
(iii) 6.022×10^{23} molecules of water
(iv) 1.2044×10^{25} molecules of water
(A) (i)
(B) (i) and (iv)
(C) (ii) and (iii)
(D) (ii) and (iv)

BIOLOGY

24. Which one of the following is not an Annelid?
(A) Nereis
(B) Earthworm
(C) Leech
(D) Urchin
25. If salivary amylase is lacking in the saliva, which of the following functions in mouth cavity will be affected?
(A) Proteins breaking down into amino acids
(B) Starch breaking down into sugars
(C) Fats breaking down into fatty and glycerol
(D) None of these
26. Reproduction is essential for living organisms in order to:
(A) Keep the individual organism alive
(B) Fulfil their energy requirements
(C) Maintain growth
(D) Continue the species generation after generation
27. A cross between a tall plant (TT) and short pea plant (tt) resulted in progeny that were all tall plants because:
(A) Tallness is recessive trait
(B) Tallness is dominant trait
(C) Dwarfness is dominant trait
(D) All of these
28. According to evolutionary theory, formation of new species is due to:
(A) New needs and changes in environmental conditions
(B) Sudden change in climatic conditions
(C) Accumulation of variations over several generations
(D) Inheritance of acquired characteristics
29. Which is correct sequence of air passage during inhalation?
(A) Nostrils → Larynx → Pharynx → Trachea → Lungs
(B) Nasal Passage → Trachea → Pharynx → Larynx → Alveoli
(C) Larynx → Nostrils → Pharynx → Lungs
(D) Nostrils → Pharynx → Larynx → Trachea → Alveoli
30. If testa is removed from water soaked gram seed, the remaining structure is:
(A) Full mature embryo
(B) Cotyledons with endosperm
(C) Cotyledons filled with starch
(D) Half mature embryo
31. Which of the following statement is incorrect?
(A) For every hormone there is a gene
(B) For every protein there is a gene
(C) For production of every enzyme there is a gene
(D) For every molecule of fat there is a gene
32. Some dinosaurs had feathers although they could not fly but birds have feathers that help them to fly. In the context of evolution this means that:
(A) reptiles have evolved from birds
(B) there is no evolutionary connection between reptiles and birds
(C) feathers are homologous structures in both the organisms
(D) birds have evolved from reptiles

33. Excessive exposure of human to UV rays results in:
 (i) Damage to immune system
 (ii) Damage to lungs
 (iii) Skin cancer
 (iv) Peptic Ulcers
 (A) (i) and (ii) (B) (ii) and (iv)
 (C) (i) and (iii) (D) (iii) and (iv)
34. Making antiviral drugs is more difficult than making anti bacterial medicines because:
 (A) Viruses make use of host machinery
 (B) Viruses are on the border line of living and nonliving
 (C) Viruses have very few biochemical mechanisms of their own
 (D) Viruses have a protein coat
35. In desert plants, rate of water loss gets reduced due to the presence of:
 (A) Cuticle (B) Stomata
 (C) Lignin (D) Suberin

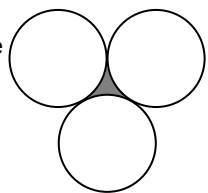
SOCIAL SCIENCE

36. The term „Tavern“ stands for a:
 (A) Place where people gathered to dance and dine
 (B) Place where people carried political discussions
 (C) Place where people gathered to drink alcohol
 (D) Place where people gathered to discuss their problems
37. “When France sneezes, the rest of Europe catches cold”, who remarked these words?
 (A) Duke Metternich (B) Giuseppe Mazzini
 (C) Otto Von Bismarck (D) Frederic Sorrieu
38. The Tripartite Pact (1940) was signed by:
 (A) Britain, France and Germany (B) Germany, Italy and Japan
 (C) Japan, Britain and Russia (D) Russia, Britain and USA
39. Philanthropis mainly work for:
 (A) industrial workers (B) peasants
 (C) social and religios reforms (D) social uuliftment and charity
40. The Vernacular Press Act (1878) was prepared to:
 (A) provide the government with right to censor reports and editorials
 (B) provide the government with rights to promote vernacular press
 (C) provide the government with right to favour Indian vernacular press for growth of nationalism
 (D) provide the government with rights to finance vernacular press
41. “Civil Code of 1804: is usually known as:
 (A) Habsburg Code (B) Napolenoic Code
 (C) Germanic Code (D) Dutch Code
42. Which leader is known as the Frontier Gandhi?
 (A) M.K. Gandhi (B) Indira Gandhi
 (C) Abdul Ghaffar Khan (D) J.L. Nehru
43. Raikas tribe is found in:
 (A) Madhya Pradesh (B) Arunanchal Pradesh
 (C) Jharkhand (D) Rajasthan
44. Which of the following is not included in the teachings of Jainism?
 (A) Fasts and mortification for the body (B) Belief in Karma and rebirth
 (C) Non-violence (D) Belief in God
45. The Upanishads are:
 (A) A source of Hindu philosophy (B) Books of ancient Hindu law
 (C) Books on social behavior man (D) Prayers to god
46. Indian Constitution Federation from:
 (A) USA (B) Canada
 (C) Australia (D) England

47. Water privatisation protest in Bolivia was led by:
 (A) Student union (B) Fedecor
 (C) Political Parties (D) Labour Union
48. Universal Adult Franchise was firstly granted in:
 (A) Germany (B) USA
 (C) Newzealand (D) Britain
49. In a parliamentary form of democracy:
 (A) Executive controls the Legislature (B) Executive Controls the Judiciary
 (C) Judiciary controls the Executive (D) Legislature controls the Executive
50. Which of the following locations is not correct?
- | Name of the organization | Location of Headquarter |
|------------------------------------|-------------------------|
| (A) UNESCO | Paris |
| (B) ILO | Geneva |
| (C) FAO | Brussels |
| (D) International Court of Justice | the Hague |
51. Which of the following statements about the international Court of justice is not correct?
 (A) It is the principal judicial organ of the United Nations
 (B) Its judges are elected
 (C) Its decisions are not enforceable
 (D) Nations aggrieved by the non-implementation of the decision have no further redress
52. The civil Court does not deal with:
 (A) Land disputes (B) Landlord tenant disputes
 (C) Offence like thefts (D) None of these
53. In the context of Panchayati Raj, which one of the following is true about Gram Sabha?
 (A) This is the topmost tier of the Panchayati Raj
 (B) It consists of all the voters residing in the jurisdiction of a village panchayat
 (C) It is executive body consisting of selected representatives from the village panchayat
 (D) It consists of all about males of the village panchayat
54. Eligibility for a regional party to be recognized as a national party is:
 (A) To be recognized in at least 3 states
 (B) Recognized in at least 4 states
 (C) To get 1/10th of the seats of Lok Sabha
 (D) Get 1/10th seats of Parliament
55. What is Zero Hour?
 (A) When matters of utmost importance are raised
 (B) When a money bill is introduced in the Lok Sabha
 (C) when session became zero
 (D) At 12'o clock
56. Irrigation facilities should be improved urgently in India because:
 (A) irrigation yields better output (B) monsoon is irregular
 (C) rivers are dry most of the periods in the year (D) land under irrigation is small
57. Maharashtra state is ideal for cotton cultivation because:
 (A) it has a good network of communication
 (B) it has sticky black soil
 (C) it provides cheap and abundant labour
 (D) it has a moderate climate
58. Why is there scanty rainfall in the Deccan Plateau?
 (A) It is far away from the sea (B) It is near the sea
 (C) It is in the rain shadow region (D) None of these
59. Flood occur frequently in the northern plains of India because of:
 (A) Long spells of rainy weather
 (B) the presence of many large river courses
 (C) Fluctuation of the level of the underground water table
 (D) Uncertain and uneven occurrence of rains in the plains

60. Which of the following statements is correct?
 (A) Equatorial regions are regions of permanent low pressure
 (B) Equatorial regions have low pressure during summer but high pressure during winter
 (C) Atmospheric pressure is always high along the equator
 (D) None of the above
61. What is Overa?
 (A) National park
 (B) Wild life Sanctuary
 (C) Biosphere resource
 (D) Bird Sanctuary
62. Nagarjuna Sagar dam is on which river?
 (A) Ganga
 (B) Ravi
 (C) Krishna
 (D) Cauvery
63. Milpa farming is practiced in:
 (A) Venezuela
 (B) Brazil
 (C) Indonesia
 (D) Mexico
64. Which country is largest producer of Rice in the world?
 (A) India
 (B) USA
 (C) Indonesia
 (D) China
65. Which of the following is Bio-diesel crop?
 (A) Sugarcane
 (B) Jatropha
 (C) Wheat
 (D) Rice
66. Which of the following is NOT a Directive Principle?
 (A) To raise of nutrition
 (B) To develop scientific temper
 (C) To promote economic interests of weaker sections
 (D) To separate judiciary from executive
67. Which is not the cause of low agriculture productivity?
 (A) Lack of irrigation facilities
 (B) Poor techniques
 (C) Non-availability of good seeds
 (D) Lack of demand
68. The unemployment problem can be solved by:
 (A) development of education
 (B) development of industries
 (C) use of modern means of production in agriculture
 (D) efficient administration
69. Economic development of a country is measured on the basis of:
 (A) National income only
 (B) Per National income only
 (C) Net domestic product
 (D) National income and per capital income
70. Second green revolution is related to the production of which crop?
 (A) Wheat
 (B) Rice
 (C) Oilseeds
 (D) Sugarcane

MATHEMATICS

71. If three equal circles of radius 3 cm each touch each other externally as shown, then the area of the shaded portion is:
- 
- (A) $\frac{\sqrt{3}}{2} (2-\pi) \text{ cm}^2$
 (B) $\frac{9}{2} (2\sqrt{3} - \pi) \text{ cm}^2$
 (C) $\frac{9}{2} (2\sqrt{3} + \pi) \text{ cm}^2$
 (D) $\frac{3}{2} (\sqrt{3} - \pi) \text{ cm}^2$
72. The distance between the centre of the two circles of radii r_1 and r_2 is d . they will touch each other internally if:
 (A) $d = r_1$ or r_2
 (B) $d = r_1 + r_2$
 (C) $d = r_1 - r_2$
 (D) $d = \sqrt{r_1 r_2}$
73. In an equilateral triangle ABC if $AD \perp BC$, then:
 (A) $2AB^2 = 2AD^2$
 (B) $4AB^2 = 3AD^2$
 (C) $3AB^2 = 4AD^2$
 (D) $2AB^2 + 2AD^2$

74. The ratio of the length of a side of an equilateral triangle and its height is:
 (A) 2:1 (B) 1:2
 (C) $2:\sqrt{3}$ (D) $\sqrt{3}:2$
75. There are four lines in a plane no two of which are parallel. The maximum number of points in which they can intersect is:
 (A) 4 (B) 5
 (C) 6 (D) 7
76. A balloon of radius r makes an angle α at the eye of an observer and the angle of elevation of its centre is β . The height of its centre from the ground level is given by:
 (A) $r \cos \frac{\beta}{2} \sec \alpha$ (B) $r \cos \beta \sec \frac{\alpha}{2}$
 (C) $r \sin \frac{\alpha}{2} \operatorname{cosec} \beta$ (D) $r \sin \beta \operatorname{cosec} \frac{\alpha}{2}$
77. From the top of a light house the angles of depression of two ships on the opposite sides of it are the observed to be α and β . If the height of the light house be h meters and the line joining the ships passes through the foot of the light house, the distance between the ships is:
 (A) $\frac{h(\cot \alpha + \cot \beta)}{\cot \alpha \cdot \cot \beta}$ (B) $\frac{h(\tan \alpha + \tan \beta)}{\tan \alpha \cdot \tan \beta}$
 (C) $h(\tan \alpha + \tan \beta)$ (D) $\frac{h \tan \alpha \cdot \tan \beta}{\tan \alpha \cdot \tan \beta}$
78. A boat is being rowed away from a cliff 150 m high. At the top of the cliff the angle of depression of the boat changes from 60° to 45° in 2 minutes. The speed of the boat is:
 (A) 2 km/hr (B) 1.9 km/hr
 (C) 2.4 km/hr (D) 3 km/hr
79. $\frac{\cot A + \operatorname{cosec} A - 1}{\cot A - \operatorname{cosec} A + 1}$ is equal to
 (A) $\operatorname{cosec} A + \cot A$ (B) $\sec A + \cot A$
 (C) $\operatorname{cosec} A + \tan A$ (D) $\operatorname{cosec} A - \cot A$
80. A bag contains 5 blue and 4 black balls. Three balls are drawn at random. What is the probability that 2 are blue and 1 is black?
 (A) $\frac{1}{3}$ (B) $\frac{2}{5}$
 (C) $\frac{1}{6}$ (D) None
81. How many terms of the A.P. 3, 6, 9, 12, 15.....must be taken to make the sum 108?
 (A) 6 (B) 7
 (C) 8 (D) 36
82. If V be the volume and S the surface area of a cuboid of dimensions a , b and c , then $\frac{1}{V}$ is equal to:
 (A) $\frac{S}{2}(a+b+c)$ (B) $\frac{2}{S}\left(\frac{1}{a} + \frac{1}{b} + \frac{1}{c}\right)$
 (C) $\frac{2S}{a+b+c}$ (D) $2S(a+b+c)$
83. The area of a circular ring between two concentric circles of radii r and $(r + h)$ units respectively is given by:
 (A) $\pi (2r + h) h$ sq. units (B) $\pi (r + h) h$ sq. units
 (C) $\pi (r + 2h) r$ sq. units (D) $\pi (r - h) r$ sq. units
84. A man can row three quarters of a km against the stream in $11\frac{1}{4}$ minutes and return in $7\frac{1}{2}$ minutes. The speed of the man in still water is:
 (A) 2 km/h (B) 3 km/h
 (C) 4 km/h (D) 5 km/h

85. A tank can be filled by one tap in 209 minutes and by another in 25 minutes. Both the taps are kept open for 5 minutes and then the second is turned off. In how many minutes more is the tank completely filled?
 (A) 6 (B) 11
 (C) 12 (D) $17\frac{1}{2}$
86. The solution set of the equation $x^{2/3} + x^{1/3} - 2 = 0$ is
 (A) {8, 1} (B) {8, -1}
 (C) {-8, -1} (D) {-8, 1}
87. The roots of the equation $x^2 + px + q = 0$ are 1 and 2. The roots of the equation $qx^2 - px + 1 = 0$ must be:
 (A) 1, 1/2 (B) -1/2, -1
 (C) -1/2, 1 (D) -1, 1/2
88. The solution of the equations:
 $\frac{m}{x} + \frac{n}{y} = a, \frac{n}{x} + \frac{m}{y} = b$ is given by
 (A) $x = \frac{n^2 + m^2}{am - bn}, y = \frac{m^2 - n^2}{bm - an}$ (B) $x = \frac{m^2 - n^2}{am - bn}, y = \frac{n^2 - m^2}{bm - an}$
 (C) $x = \frac{m^2 - n^2}{am - bn}, y = \frac{m^2 - n^2}{bm - an}$ (D) $x = \frac{n^2 - m^2}{am - bn}, y = \frac{n^2 - m^2}{bm - an}$
89. The HCF of two expressions p and q is 1. Their LCM is:
 (A) p + q (B) p - q
 (C) pq (D) $\frac{1}{pq}$
90. If x - a is a factor of $x^3 - 3x^2a + 2a^2x + b$ then the value of b is:
 (A) 0 (B) 2
 (C) 1 (D) 3

SCHOLASTIC APTITUDE TEST-2014

ANSWER

SECTION – 1: PHYSICS

- | | | | | |
|-------|-------|------|------|-------|
| 1. C | 2. B | 3. C | 4. A | 5. B |
| 6. A | 7. A | 8. D | 9. C | 10. B |
| 11. A | 12. B | | | |

SECTION – 2: CHEMISTRY

- | | | | | |
|-------|-------|-------|-------|-------|
| 13. A | 14. B | 15. A | 16. B | 17. A |
| 18. D | 19. C | 20. B | 21. A | 22. C |
| 23. D | | | | |

SECTION – 3: BIOLOGY

- | | | | | |
|-------|-------|-------|-------|-------|
| 24. D | 25. B | 26. D | 27. B | 28. C |
| 29. D | 30. B | 31. D | 32. D | 33. C |
| 34. C | 35. A | | | |

SECTION – 4: SOCIAL SCIENCE

- | | | | | |
|------|------|------|------|------|
| 36.C | 37.A | 38.B | 39.D | 40.A |
| 41.B | 42.C | 43.D | 44.D | 45.A |
| 46.B | 47.D | 48.C | 49.D | 50.C |
| 51.C | 52.C | 53.B | 54.B | 55.D |
| 56.D | 57.B | 58.A | 59.B | 60.A |
| 61.B | 62.C | 63.D | 64.D | 65.B |
| 66.D | 67.D | 68.D | 69.D | 70.B |

SECTION – 5: MATHEMATICS

- | | | | | |
|-------|-------|-------|-------|-------|
| 71. B | 72. C | 73. C | 74. C | 75. C |
| 76. D | 77. B | 78. B | 79. A | 80. D |
| 81. C | 82. B | 83. A | 84. D | 85. B |
| 86. D | 87. B | 88. C | 89. C | 90. A |

SOLUTIONS**PHYSICS**

- Slope of I-V graph = $\frac{1}{R} = \tan\theta$. Slope is less for R_3 , so option three is correct.
- For figure a R_2 is parallel with ideal wire so the circuit will not work.
- Permanent magnets are weak.
- Incidence ray is along the normal so $i = 0^\circ$
- Refractive index of water is less than that of glass. So angle of refraction will be more for water.
- For minimum deviation $i = e$
 $a + \delta_m = i + e$
 $a + \delta_m = 2i$
 $60^\circ + 40^\circ = 2i$
 $i = 50^\circ$
- For rough focal length, we assume parallel incidence beam and it emerges out parallel. The combination will behave as a slab.
- Action and reaction have equal magnitude.
- $mg = \rho_w \frac{2v}{3} g = \rho_l \frac{v}{4} g$
 $\rho_l = 100 \times \frac{2}{3} \times 4$
- The density of alcohol (800 kg/m^3) is less than that of water. So hydrometer will dip more than earlier.
- For a particular key there is fixed frequency.
- Let initial intensity is I . On first passes the intensity loss will be 20% of I . So $I_1 = 0.8 I$.
 On second passage the loss will be 20% of $0.8 I$.
 $\frac{20}{100} \times \frac{8}{10} I = 0.16 I$
 So the final intensity will be $0.8 I - 0.16 I = 0.64 I$.
 So loss will be $\frac{0.64 I - I}{I} \times 100$
 36%

CHEMISTRY

- In KMnO_4 oxidation state of Mn is +7. So it is a powerful oxidizing agent.
- $(\text{CH}_3\text{COO})_2 \text{Pb} + 2\text{KI} \rightarrow \text{PbI}_2 + 2\text{CH}_3\text{COOK}$
- Addition of quick lime to water and dilution of acid are examples of exothermic reactions.
- NaHCO_3 is added to neutralize acid.
- Lime juice has $\text{pH} < 7$.
- Alkaline hydrolysis of ester is called saponification.
- Hard water contains Mg^{2+} and Ca^{2+} ions.
- Li, N and Ne belong to same period.
- It is a fact
- Mole of $\text{H}_2 = \frac{1}{2}$, which is maximum.
- Number of moles of $\text{H}_2\text{O} = \frac{360}{18} = 20$

BIOLOGY

24. Sea Urchin belongs to phylum echinodermata.
25. Salivary amylase is required for breakdown of starch into maltose.
26. Reproduction is required for multiplication of organisms thereby maintaining continuity of species.
27. Tallness is a dominant trait in pea plant, so a cross between TT and tt plant will always result in all tall plants.
28. Continuous accumulation of variation among organisms leads to formation of new species and helps in evolution.
29. During inhalation, air moves from the outermost structure of respiratory tract nostril to pharynx then larynx, trachea and then alveoli.
30. Testa is the outermost covering of seed coat, behind which is present cotyledons filled with endosperm.
31. Proteins, enzymes and proteinic hormones are produced through gene.
32. Presence of feathers that help birds fly shows that birds have evolved later on after reptiles.
33. Harmful U.V rays are sufficient enough to cause skin cancer and damage the immune system of human body.
34. Viruses completely depend upon host organisms for their multiplication and they don't have any biochemical mechanisms that can be acted upon by antiviral drugs.
35. Cuticle is the outermost covering in the stem of desert plants which helps in preventing water loss.

MATHEMATICS

71. $\text{Area} = \frac{\sqrt{3}}{4}(6)^2 - 3 \times \frac{60}{360} \pi(3)^2$

72. $d = r_1 - r_2$

73. $AB^2 + AC^2 = 2[AD^2 + BD^2]$

$$AB^2 + AB^2 = 2 \left[\frac{AB^2}{4} + BD^2 \right]$$

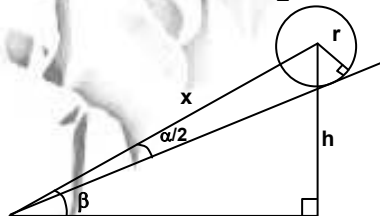
74. Let side 3 = a

$$\text{Height} = \frac{\sqrt{3}}{2} a$$

75. Number of points of intersection $4C_2 = \frac{4 \times 3}{2} = 6$

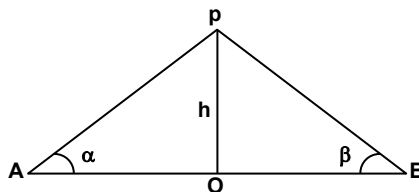
76. $\frac{r}{x} = \sin \frac{\alpha}{2}$

$$\frac{h}{x} = \sin \beta$$



77. $AO = \frac{h}{\tan \alpha}$ $OB = \frac{h}{\tan \alpha}$

$$AB = \frac{h}{\tan \alpha} + \frac{h}{\tan \alpha}$$



78. $\frac{1}{1000} \left(150 - \frac{150}{\sqrt{3}} \right) = v \times \frac{2}{60}$

79. Multiply number of direction by $\cot A + \operatorname{cosec} A + 1$

80. $P = \frac{{}^5C_2 \times {}^4C_1}{{}^9C_3}$

$$81. \quad \frac{n}{2}[2.3 + (n-1)3] = 108$$

$$6n + 3n^2 - 3n = 216$$

$$3n^2 + 3n - 216 = 0$$

$$x^2 + n - 72 = 0$$

$$(x+9)(x-8) = 0$$

$$x = 8$$

$$82. \quad v = abc; s = 2(ab + bc + ac)$$

$$\frac{s}{v} = 2\left(\frac{1}{a} + \frac{1}{b} + \frac{1}{c}\right)$$

$$83. \quad A = \pi(r+h)^2 - \pi r^2$$

$$84. \quad \text{Let } v_m = \text{velocity of man}$$

$$V_s = \text{velocity of stream}$$

$$\frac{3}{4} = (v_m - v_s) \frac{45}{4} \times \frac{1}{60}$$

$$\frac{3}{4} = (v_m + v_s) \frac{15}{2} \times \frac{1}{60}$$

$$85. \quad \text{Let flow rate of first tank} = x \text{ m}^3/\text{min. Flow rate of 2}^{\text{nd}} \text{ tap} = y \text{ m}^3/\text{min.}$$

$$\text{Let volume of tank} = m^3$$

$$20x = v$$

$$x = \frac{v}{20}$$

$$25y = v$$

$$y = \frac{v}{25}$$

$$5t = \frac{v - 5x - 5y}{x} = 11 \text{ min}$$

$$86. \quad \text{Put } x^{1/3} = t$$

$$t^2 + t - 2 = 0$$

$$(t+2)(t-1) = 0$$

$$t = 1, t = -2$$

$$x^{1/3} = 1 \quad x^{1/3} = -2$$

$$x = 1 \quad x = -8$$

$$87. \quad P = -3$$

$$q = 2$$

Now equation is

$$2x^2 + 3x + 1 = 0$$

$$2x^2 + 2x + x + 1 = 0$$

$$(2x+1)(x+1) = 0$$

89. HCF of P and Q = 1
So LCM = PQ

90. $x = a$ is root
So $a^3 - 3a^3 + 2a^3 + b = 0$
B = 0



Directions for Questions 1 to 5:

Arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence from the options.

- | | | |
|----|---|---|
| 1. | (A) Cloth
(C) Chronic
(E) Create
(1) (D), (C), (B), (A), (E)
(3) (D), (B), (C), (E), (A) | (B) Cinema
(D) Christmas
(2) (A), (B), (C), (D), (E)
(4) (D), (B), (C), (A), (E) |
| 2. | (A) Dialogue
(C) Diameter
(E) Dial
(1) (D), (B), (E), (A), (C)
(3) (A), (B), (D), (E), (C) | (B) Diagram
(D) Diagnose
(2) (B), (D), (E), (A), (C)
(4) (A), (B), (C), (D), (E) |
| 3. | (A) Navigate
(C) Naughty
(E) Narrow
(1) (E), (D), (C), (B), (A)
(3) (A), (B), (C), (D), (E) | (B) National
(D) Nation
(2) (E), (D), (B), (C), (A)
(4) (E), (B), (C), (D), (A) |
| 4. | (A) Peerless
(C) Petroleum
(E) Pharmacy
(1) (D), (A), (B), (E), (C)
(3) (D), (A), (B), (C), (E) | (B) Penal
(D) Pedestrian
(2) (A), (B), (E), (D), (C)
(4) (D), (A), (E), (C), (B) |
| 5. | (A) Unstable
(C) Unsafe
(E) Unshared
(1) (A), (C), (B), (D), (E)
(3) (A), (D), (E), (B), (C) | (B) Unship
(D) Unseat
(2) (C), (D), (E), (B), (A)
(4) (E), (D), (C), (B), (A) |

Directions for Questions 6 to 10:

Select the combination of numbers so that letters arranged accordingly will form a meaningful word.

- | | | |
|----|--|--|
| 6. | B L I P U S H
1 2 3 4 5 6 7
(1) 4, 5, 1, 2, 6, 3, 7
(3) 1, 2, 3, 4, 5, 6, 7 | (2) 4, 5, 3, 2, 1, 6, 7
(4) 4, 5, 1, 2, 3, 6, 7 |
| 7. | H L R A O C S
1 2 3 4 5 6 7
(1) 1, 2, 3, 4, 5, 6, 7
(3) 7, 6, 1, 5, 2, 4, 3 | (2) 7, 6, 5, 1, 4, 2, 3
(4) 7, 6, 5, 1, 2, 4, 3 |
| 8. | I K E S R T
1 2 3 4 5 6
(1) 6, 4, 5, 1, 2, 3
(3) 6, 5, 4, 3, 2, 1 | (2) 4, 6, 5, 1, 2, 3
(4) 1, 2, 3, 4, 5, 6 |
| 9. | M B L A L R U E
1 2 3 4 5 6 7 8
(1) 7, 1, 2, 6, 8, 3, 5, 4
(3) 8, 7, 2, 1, 4, 5, 3, 6 | (2) 1, 2, 3, 4, 5, 6, 7, 8
(4) 1, 2, 3, 6, 7, 8, 4, 5 |

10. R G O S I E A N
1 2 3 4 5 6 7 8
(1) 3, 8, 7, 4, 5, 6, 1, 2
(3) 3, 1, 2, 8, 7, 4, 5, 6

- (2) 3, 2, 1, 5, 8, 7, 4, 6
(4) 3, 1, 2, 7, 8, 5, 4, 6

Directions for Questions 11 to 15:

Some words are given in Column-I. These words are written in a code language in Column-II. The code equivalents of the words given in Columns-I are II are not necessarily in the corresponding order. Choose the correct code for the words from the given alternatives.

S.No.	Column-I	Column-II
(i)	Podnajoc	very bright boy
(ii)	tan nu pod	the boy comes
(iii)	nu per ton	keep the doll
(iv)	joc ton su	very good doll
(v)	sa pod ton	doll is boy

11. Which word will be code for word doll?

- (1) ton
(3) joc

- (2) na
(4) per

12. Which word will be code for boy?

- (1) nu
(3) pod

- (2) sa
(4) tan

13. Which word will be code for word bright?

- (1) pod
(3) nu

- (2) tan
(4) na

14. Which word will be code for word keep?

- (1) joc
(3) pod

- (2) per
(4) tan

15. Which word will be code for word the?

- (1) nu
(3) per

- (2) tan
(4) sa

Directions for Questions 16 to 20:

There are three words. The first two words to the left of (::) are related in some way. The same relationship holds between the third word to the right of sign (::) and one of the responses. Identify the correct related word.

16. Newspaper : Editor :: Film : ?

- (1) Actor
(3) Director

- (2) Producer
(4) Story Writer

17. Calendar : Dates :: Dictionary : ?

- (1) Language
(3) Grammar

- (2) Sentences
(4) Vocabulary

18. Rupee : India :: Yes : ?

- (1) Pakistan
(3) Bangladesh

- (2) Japan
(4) Nepal

19. Dog : Bark :: Goat : ?

- (1) Bleat
(3) Grunt

- (2) Howl
(4) Bray

20. Animals : Zoology :: Birds : ?

- (1) Botany
(3) Ornithology

- (2) Philology
(4) Siesmology

Directions for Questions 21 to 25:

Choose the correct options.

21. As COUNSEL is to BITIRAK, so also GUIDANCE is to:
(1) HOHYBJBA (2) FPHZZKAB
(3) FOHYZJBB (4) OHYZKBB
22. As BLOCKED is to YOLOXPVW, so also OZFMXS is to:
(1) LABOUR (2) LAUNCH
(3) NAUGHT (4) RESULT
23. As THEREFORE is to TEEOERFRH, so also HELICOPTER is to:
(1) RETPOCILNE (2) RETPOCILEH
(3) HLCPERTOIE (4) HELICORETP
24. As RATIONAL is to RATNIOLA, so also TRIBAL is to:
(1) TRILBA (2) TIRLBA
(3) TRIALB (4) TIRLAB
25. As CIRCLE is to RICELC, so also SQUARE is to:
(1) UQSERA (2) UQSAER
(3) QUSERA (4) QSUERA

Directions for Questions 26 to 30:

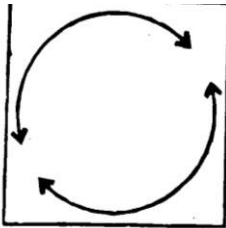
They are based on the following information $\alpha, \beta, \gamma, \delta, \varepsilon, \phi, \psi, \eta$ are sitting on a merry-go-round facing at the center. δ is second to the left on η who is third to the left of α , β is fourth to the right of γ who is immediate neighbour of β or γ is not a neighbor of β , ϕ is not a neighbor of β .

26. Who is third to the left of β ?
(1) α (2) γ
(3) ϕ (4) ψ
27. In which of the following pairs is the first person sitting to the immediate right of the second person?
(1) δ, ψ (2) β, ε
(3) η, β (4) ψ, η
28. What is ϕ 's position with respect to ψ ?
(1) Third towards right (2) Third towards left
(3) Second towards right (4) Second towards left
29. Who is sitting between α and β ?
(1) Both ε and η (2) Both ϕ and γ
(3) Only ε (4) Only γ
30. How many of them are sitting between γ and β ?
(1) 0 or 6 (2) 1 or 5
(3) 2 or 4 (4) 3

Directions for Questions 31 to 35:

You are given a figure (X) followed by four figures 1, 2, 3 and 4 such that (X) is embedded in one of them. Trace out the correct alternative.

31.



(X)



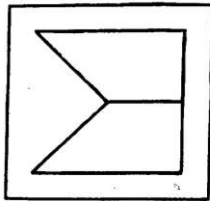
1.

2.

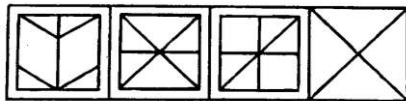
3.

4.

32.



(X)



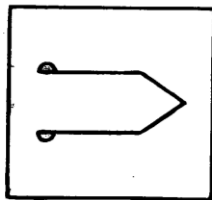
1.

2.

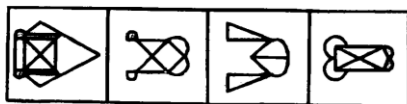
3.

4.

33.



(X)



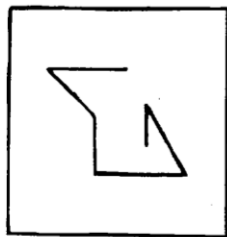
1.

2.

3.

4.

34.

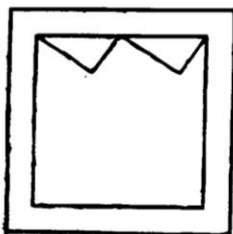


(X)

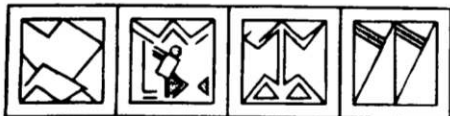


1. 2. 3. 4.

35.



(X)

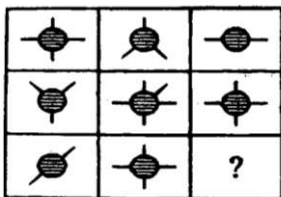


1. 2. 3. 4.

Directions for Questions 36 to 45:

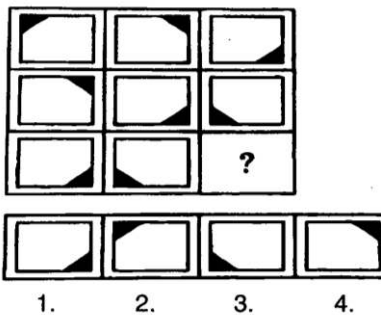
Find out which of the answer figures 1, 2, 3, and 4 completes the figure matrix.

36.

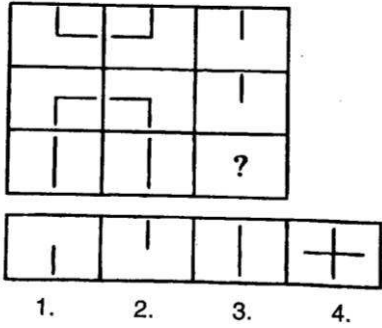


1. 2. 3. 4.

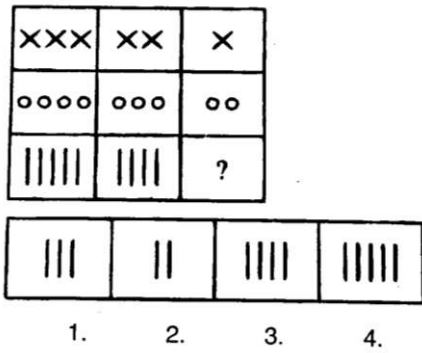
37.



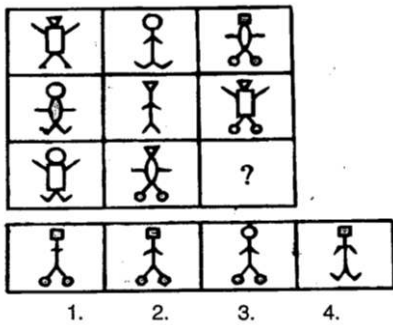
38.



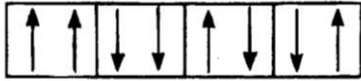
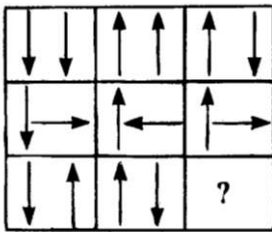
39.



40.



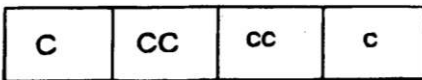
41.



1. 2. 3. 4.

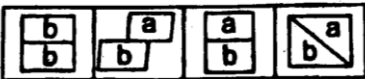
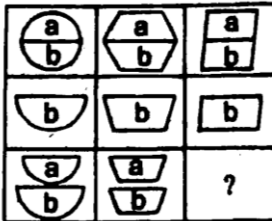
42.

AA	BB	CC
Aa	Bb	Cc
aa	bb	?



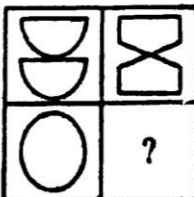
1. 2. 3. 4.

43.



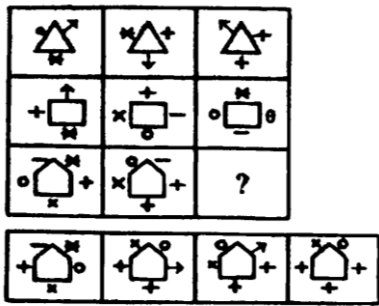
1. 2. 3. 4.

44.



1. 2. 3. 4.

45.



1. 2. 3. 4.

Directions for Questions 46 to 50:

You are given a combination of letters and numbers followed by four alternatives 1, 2, 3, and 4. Choose the alternative that most closely resembles the mirror image (can be horizontal or vertical or both) of the given combination.

46.

REASONING

1. REVSZONING 2. GNINOSAEV
3. GNINOSVER 4. REAZONIEV

47.

WESTERN

1. WESTERN 2. NRETSW
3. WESTERN 4. WESTERN

48.

DBV8478

1. 8748VBD 2. 8748VBD
3. 8478DBV 4. 8478DBV

49.

15UP5062

1. 5062UP15 2. 2605PU51
3. 2062UP15 4. None of these

50.

panipat

1. tapinap 2. qsniqat
3. tsqinat 4. patpani

ANSWERS

- | | | | | |
|-------|-------|-------|---------|-------|
| 1. 1 | 2. 1 | 3. 2 | 4. 3 | 5. 2 |
| 6. 4 | 7. 3 | 8. 2 | 9. 1 | 10. 4 |
| 11. 1 | 12. 3 | 13. 4 | 14. 2 | 15. 1 |
| 16. 3 | 17. 4 | 18. 2 | 19. 1 | 20. 3 |
| 21. 3 | 22. 2 | 23. 3 | 24. 1 | 25. 1 |
| 26. 3 | 27. 2 | 28. 1 | 29. 3 | 30. 4 |
| 31. 2 | 32. 2 | 33. 2 | 34. 4 | 35. 4 |
| 36. 1 | 37. 2 | 38. 2 | 39. 1 | 40. 2 |
| 41. 1 | 42. 3 | 43. 2 | 44. 2,3 | 45. 2 |
| 46. 2 | 47. 1 | 48. 1 | 49. 4 | 50. 3 |

SOLUTION

1. The given words can be arranged in the alphabetical order as:
Christmas→Chronic→Cinema→Cloth→Create
2. The given words can be arranged in the alphabetical order as:
Diagnose→Diagram→Dial→Dialogue→Diameter
3. The given words can be arranged in the alphabetical order as:
Narrow→Nation→National→Naughty→Navigate
4. The given words can be arranged in the alphabetical order as:
Pedestrian→Peerless→Penal→Pharmacy→Petroleum
5. The given words can be arranged in the alphabetical order as:
Unsafe→Unseat→Unshared→Unship→Unstable
6. The given words on rearranging the letters
PUBLISH
7. The given words on rearranging the letters
SCHOLAR
8. The given words on rearranging the letters
STRIKE
9. The given words on rearranging the letters
UMBRELLA
10. The given words on rearranging the letters
ORGANISE
11. According to the given question the code for the word
Doll = ton
12. According to the given question the code for the word
Boy = pod
13. According to the given question the code for the word
Bright = na
14. According to the given question the code for the word
Keep = per
15. According to the given question the code for the word
The = nu
16. Head of the newspaper is editor similarly head of the film is director.
17. We see dates in calendar similarly we see vocabulary in dictionary
18. 'Rupee' is the currency of 'India'.
Similarly, 'yen' is the currency of 'Japan'.
19. Second is noise produced by the first.
20. Study of animal is Zoology
Similarly study of birds is Ornithology
21. The pattern is as follows:
-1, -6, -1, -5, -1, -4

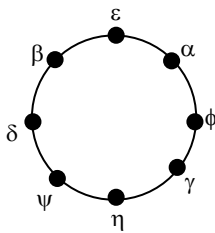
22. The pattern is as follows:
 B L O C K E D
 25 15 12 24 16 22 23 Reverse value
 Y O L X P V W
 Similarly the code for
 O Z F M X S
 12 1 21 14 3 8 Reverse value
 L A U N C H

23. The pattern is as follows:
 1 2 3 4 5 6 7 8 9 = 1 3 5 7 9 8 6 4 2
 T H E R E F O R E = T E E O E R F R H
 Similarly the code for HELICOPTER = HLCPERTOIE

24. The pattern is as follows:
 1 2 3 4 5 6 7 8 = 1 2 3 6 4 5 8 7
 R A T I O N A L = R A T N I O L A
 Similarly the code for
 1 2 3 4 5 6 = 1 2 3 6 4 5
 T R I B A L = T R I L B A

25. The pattern is as follows:
 C I R C L E = R I C E L C
 1 2 3 4 5 6 = 3 2 1 6 5 4
 Similarly the code for SQUARE = UQSERA

26 to 30



26. According to the above diagram ϕ is third to the left of β .
27. According to the above diagram β is sitting to the immediate right of ϵ .
28. According to the above diagram ϕ is third toward right of ψ .
29. According to the above diagram ϵ is sitting between α and β .
30. According to the above diagram three of them are sitting between γ and β .
- | | |
|--|----------------------------------|
| 31. 2 is answer by observation | 32. 2 is answer by observation |
| 33. 2 is answer by observation | 34. 4 is answer by observation |
| 35. 4 is answer by observation | 36. 1 is answer by observation |
| 37. 2 is answer by observation | 38. 2 is answer by observation |
| 39. 1 is answer by observation | 40. 2 is answer by observation |
| 41. 1 is answer by observation | 42. 3 is answer by observation |
| 43. 2 is answer by observation | 44. 2,3 is answer by observation |
| 45. 2 is answer by observation | 46. 2 is answer by observation |
| 47. 1 is answer by observation | 48. 1 is answer by observation |
| 49. 4 is answer by observation | |
| 50. 3 is answer by observation that most closely resembles the mirror image. | |

Directions for Questions 1 to 5:

Read the passage below and answer the questions given after it.

At this stage of civilization, when many nations are brought into close and vital contact for good and evil, it is essential, as never before, that their gross ignorance of one another should be diminished, that they should begin to understand a little of one another's historical experience and resulting mentality. It is the fault of the English to expect the people of other countries to react as they do, to political and international situations. Our genuine goodwill and good intentions are often brought to nothing, because we expect other people to be like us. This would be corrected if we knew the history, not necessarily in detail but in broad outlines, of the social and political conditions which have given to each nation its present character.

1. According to the author 'Mentality' of a nation is mainly product of it's:
(A) present character (B) international position
(C) politics (D) history
2. The character of a nation is the result of its:
(A) gross ignorance (B) cultural heritage
(C) socio-political conditions (D) mentality
3. The need for a greater understanding between nations:
(A) is more today than ever before (B) was always there
(C) is no longer there (D) will always be there
4. Englishmen like others to react to political situations like:
(A) others (B) us
(C) themselves (D) each others
5. According to the author his countrymen should:
(A) read the story of other nations (B) not react to others' actions
(C) have a better understanding of other nations (D) have vital contacts other nations

Directions for Questions 6 to 8:

Read the following passage and answer the questions given after it.

Mahatma Gandhi believed that industrialization was no answer to the problems that plague the mass of India's poor and that villagers should be taught to be self-sufficient in food, weave their own cloth from cotton and eschew the glittering prizes that the twentieth century so temptingly offers. Such an idyllic and rural paradise did not appeal to the those who inherited the reins of political power.

6. Mahatma Gandhi's views opposed industrialization of villages because:
(A) It would take away the skill of the villagers
(B) It would undermine self-sufficiency and destroy the beauty of life of the villagers
(C) It would help the poor and not the rich
(D) It would affect the culture of the Indians
7. The meaning of the glittering prizes that the twentieth century so temptingly offers is"
(A) replacement of rural by urban interests (B) absence of violence and corruption
(C) pursuit of a commercialized material culture (D) complete removal of poverty
8. The basis of 'an idyllic and rural paradise' is:
(A) self-sufficiency in food and clothes and simplicity of life style
(B) supporting those holding powerful political positions
(C) rapid industrialization of villages
(D) bringing to the villages the glittering prizes of the twentieth century

Directions for Questions 9 and 10:

In each of the following questions out of the given alternatives, choose the one which best expresses the meaning of the given word.

9. Harsh
(A) Disfigure (B) Slit
(C) Severe (D) Slash
10. Tedious
(A) Tiresome (B) Painful
(C) Troublesome (D) Lengthy

Directions for Questions 11 to 15:

Choose the word which is the exact OPPOSITE of the given words.

11. Abet
(A) Prevent (B) Aid
(C) Pacify (D) Rush
12. Amused
(A) Jolted (B) Frightened
(C) Saddened (D) Astonished
13. Disparage
(A) Please (B) Denigrate
(C) Praise (D) Belittle
14. Culpable
(A) Irresponsible (B) Careless
(C) Defendable (D) Blameless
15. Intricacy
(A) Distance (B) Simplicity
(C) Cordiality (D) Ornate

Directions for Questions 16 to 25:

Find the answer that best matches the underlined word/phrase.

16. he disposed of the old materials.
(A) fell away (B) threw away
(C) went away (D) cut away
17. Please submit your application before two o'clock.
(A) hand in (B) hand down
(C) hand off (D) hand out
18. Rahul and Jassi are friendly with each other.
(A) get by with (B) get along with
(C) get over with (D) get through with
19. Were you able to recover your stolen laptop?
(A) get back (B) reach back
(C) go back (D) come back
20. Someone illegally entered the warehouse last night.
(A) broke away (B) saw through
(C) saw into (D) broke into
21. After stopping at Bombay, the ship travelled towards Cochin.
(A) made to (B) passed up
(C) went over (D) headed for
22. Mr. Sethi was hit by a car yesterday on his way to work.

- (A) run up (B) run through
(C) run over (D) run out
23. Please read the instructions carefully before starting the work.
(A) watch out (B) loop up
(C) let down (D) go through
24. Yamini resembles her mother more than her father.
(A) takes after (B) goes after
(C) looks after (D) calls after
25. Babu's secretary interrupted to tell him he had a telephone call.
(A) cut out (B) cut in
(C) took in (D) took out

Directions for Questions 26 to 30:

Of the four alternatives given under each sentence, find the one that best fits into the blank space.

26. It _____ to me that she was incurable.
(A) suggested (B) flashed
(C) happened (D) occurred
27. I am feeling _____ better today.
(A) too (B) rather
(C) very (D) fairly
28. _____ the accident, the train will arrive in time.
(A) Besides (B) Accepting
(C) Despite (D) Barring
29. The Sun _____ at six this morning.
(A) arose (B) rose
(C) aroused (D) raised
30. Health is too important to be _____.
(A) neglected (B) detested
(C) despised (D) discarded

Directions for Questions 31 to 35:

In the following passage, there are some numbered blanks. Fill in the blanks by selecting the most appropriate word for each blank from the given options:

Do women exercise leadership differently from which men do? And if so, will feminine leadership.....(31)..... where masculine leadership does not? A recent study suggests somewhat paradoxically that female managers.....(32)..... their male counterparts even when the personal characteristics are very similar. Of the two schools of thought, the structuralist theory argues that men and women do not receive the same treatment in the workspace and that stamping out..... (33).... Bias would stamp out the observed(34)..... In contrast the socialization theory contends that men and women experience work as more(35)... to their lives.

31. (A) Affect (B) Succeed
(C) Compete (D) Progress
32. (A) Out live (B) Out come
(C) Out stand (D) Out work
33. (A) Employment (B) Culture
(C) Gender (D) Class

34. (A) Variations (B) Discriminations
(C) Resemblances (D) Distortions
35. (A) Central (B) Preliminary
(C) Trivial (D) Needy

Directions for Questions 36 to 40:

Select the meaning of the given phrases/idioms.

36. At one's wit's end
(A) Perplexed (B) Clear up
(C) Explain (D) Enlighten
37. At one's fingertips
(A) To take revenge (B) Matter of shame
(C) Complete knowledge (D) None of the above
38. At the spur of the moment
(A) Difficult Moment (B) Without Delay
(C) Great Moment (D) Very Slow
39. All in all
(A) Every person (B) Particular thing same in all
(C) Call all at once (D) Most important
40. At close quarters
(A) Close examinations (B) Live near to each other
(C) Live far to each other (D) In love

ANSWERS (English)

- | | | | | |
|-------|-------|-------|-------|-------|
| 1. A | 2. B | 3. A | 4. C | 5. A |
| 6. B | 7. C | 8. A | 9. C | 10. A |
| 11. A | 12. C | 13. C | 14. A | 15. B |
| 16. B | 17. A | 18. B | 19. A | 20. D |
| 21. D | 22. C | 23. D | 24. B | 25. B |
| 26. D | 27. D | 28. C | 29. B | 30. A |
| 31. B | 32. D | 33. C | 34. B | 35. A |
| 36. A | 37. C | 38. A | 39. A | 40. A |